A.N.A.R.T.S. News Bulletin 1351 for 5th June 2005.

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Col's Column

Early Electrical Communication.

Wheatstones Automatic Telegraph

The erection and maintaining in good working order of long telegraph lines was very expensive, even in days when labour was relatively cheap. Therefore economical use of the lines was an essential part of making a profit. Numbers of messages transmitted each day was limited in the early days by the skill of operators. Even though Morse Code and the adoption of audible telegraphs such as Brights bell telegraph, the speed that telegrams could be transmitted was still pretty slow, a few operators achieving a speed of around 25 words per minute.

Wheatstone constructed a version of an invention of Bain's that recorded the message prior to trans -mission onto a strip of paper. Bain's system had holes and slits in the paper that represented the dots and dashes of Morse code. This strip was drawn through a transmitter device at a constant speed and passed between a spring loaded contact and an 'anvil'. When a hole passed beneath the contact, the contact pushed through the hole and made contact with the anvil, thus sending a current to line. this is much the same as the 'peckers' in the 'modern' Teleprinter transmitter penetrating the holes in a paper tape.

The receiving end of the system had a strip of chemically treated paper that was drawn under a stylus connected to line. when each current was received, a mark was left on the paper. In this way the original message was reproduced.

The speed of transmission was much higher than previous telegraphs and more than one operator could be employed at both the transmitting and receiving ends of the telegraph. Two or more operators prepared the tapes for transmission, and more than one could decode them at the receive end. The result being the better use of line time and a speeding up of the number of messages that could be passed in

one day.

Next week we shall see how Wheatstone developed this system. A sketch of Bains Chemical Telegraph can be seen on my web pages this Sunday.

Please remember that ANARTS WW RTTY Contest takes place next Saturday and Sunday...See you on air.

73's Col VK2CTD

Weekly Solar and Geophysical Report 29th Apr/5th May

SUMMARY

Date	29	30	01	02	03	04	05
10cm flux	105	106	112	112	112	109	109
AFr index	8	13	14	6	6	4	5 est
Aaus index	10	14	15	7	10	3	4 est
T index	39	52	54	39	41	40	38

Solar flare activity was very low 29th Apr/4th May and low on 5th.

Geomagnetic activity observed for the Australian Region was quiet to unsettled 29/30th 2/3rd quiet to active on 1st and quiet on 4/5th.

Southern Australian Ionospheric F2 critical freq -uencies were near predicted to 15 percent enhanced on 29th near predicted to 30 percent enhanced on 30th near predicted on 1/2nd 4/5th and near predicted to 15 percent depressed on 3rd.

Forecast for 6/12th May

Solar activity should be low.

Geomagnetic activity should be mostly quiet with active intervals possible, 9/11th May.

Frequencies should be mildly depressed after local dawn on 10th May otherwise near normal. No Short Wave Fadeouts are expected.

courtesy of the IPS Radio and Space Services

summary by Pat VK2JPA ANARTS Broadcast Officer

VK2SG RTTY DX NOTES FOR WEEKENDING 2ND JUN 05

Our thanks this week go to W2JGR AA5AU DJ3IW GU0SUP WX5L UT5RP OH2AQ DXSummit.

Bandpass:

Friday 27
0245-7030 CB1S
0943-14083 9K2HN
1109-14082 ZA/DM5TI
1120-18103 ZA/DL2RMC
1120-14081 ZW8DX Iota SA072
1333-18104 FR1HZ
1539-14092 9M2CNC Qsl G4FZE
1620-14085 HB0/DL2SBY
1701-14086 JT1CO
2002-14091 UX2HR
2014-14090 CB1S
2017-14082 ZA/DM5TI
2111-14089 9K2SR
2123-14083 CU3EM
2141-14081 9K2CQ
2234-14087 HK1DOS

Saturday 28
0808-14072 IR7LH/P fer LH Qsl IK7JWX
1959-14083 5Z4ES
2028-14085 PS8AL
2034-14083 9K2SR
2149-14088 CT2ILI

Sunday 29
1002-14085 EG8FAS
1438-18102 IG9/I5HLK

Monday 30
0323-14085 RA3XR
1014-14084 TK5KD Qsl F5KD
1201-18105 4K5D Qsl K2PF
1304-14082 ZA/DM5TI
1629-10138 ZA/DL2RMC
1722-10139 ZA/DM5TW
1756-14088 9K2HN
1757-10138 ZA/DM5TI
1813-21086 9K2HN
1842-14086 IG9/I5HLK
1945-14080 SV0XAN/5
1947-14083 ZA/DM5TI
2102-3585 ZA/DL2RMC
2115-14083 CX7OC
2243-14089 CB1S Qsl CE1VLY

Tuesday 31
0444-7038 9A2TN
1130-14085 RA3XR
1353-14089 OE50PMI
1853-24924 TA1BM
1858-7037 ZA/DL2RMC
1954-24920 9A2TN
2004-7038 ZA/DM5TI
2025-14084 CX7OC
2104-14087 XQ1VLY
2118-14087 IQ5AA fer pfx

Wednesday 1
0137-14089 XQ1VLY
0337-14084 RA9SD
0932-18105 ZA/DL2RMC
1509-24921 LY2YR

1530-18100 XT2JZ
1644-14085 XT2JZ
2000-18103 Z35BY
2030-14088 CT3EN
2110-14080 KH6ZM
2113-14084 CX7OC
2125-14082 IG9/I5HLK
2218-14083 CU3EQ
2313-14088 CO1RG
2315-14083 HK6DOS

Thursday 2
0900-14085 UA0FO
1331-14083 TM5KD
1424-18103 XT2JZ Qsl SM5DJZ
1721-14087 EX8AB
1742-21082 XT2JZ
2015-14088 US7QZ
2018-14079 XT2JZ

Note of interest:

ST LUCIA IS, J6. From Jun 21/Jul 5 look for N9AG/J68AS
W8QID/J68CIF from NA108. They will be active all bands
and also on digital mode.

KURE ISLAND, KH7K. A multiteam composed by KK6EK NI6T
AD6E N6MZ N0AX N7CQQ W6KK DJ9ZB I8NHJ K6SRZ K6DZL WA1S
is expected to be on from Sep 23/Oct 8 all bands/modes.

You can also subscribe to the digital-dx reflector - send an
e-mail message to majordomo at mla.nifty.ne.jp as follows:
Subject: (blank) Message Body: subscribe digital-dx

For next week's bulletin, send your bandpass and notes of
interest to Goetz dj3iw at t-online.de

Gl de Luciano I5FLN

The Ohio/Penn DX Bulletin No. 711 - excerpts

3D2, FIJI. Andre GM3VLB is once again active as 3D2LB
from Beachcomber Island (OC-121) til Jun 2. Activity is
expected to be on 80-10M CW/SSB. Over the past week he
has been heard mostly on 20M SSB. This is expected to
be a holiday style operation. QSL direct only to his
home callsign Andre Saunders 6 Douglas Crescent Kelso
Roxburghshire TD5 8BB Scotland UK.

4X17/4Z17, ISRAEL (Special Activity/Event)
The Israel Amateur Radio Club (IARC) is proud to
announce a special Amateur Radio operation honoring
the largest Jewish sport event in the world - the 17th
MACCABIAH GAMES - scheduled to be held in Tel-Aviv
between Jul 10-21. Look for 14 Israeli special event
stations to be on the air for 30 days beginning June
21 (20 days prior to the official opening of the games)
until Jul 21. Twelve stations will be active with the
letters in their suffix from which the word MACCABIAH

can be spelled. The other two stations will use a wild card (joker) to assist the task. Here are the callsigns
Group A 4X17M 4X17A 4X17C 4X17B 4X17I and 4X17H
Group B 4Z17M 4Z17A 4Z17C 4Z17B 4Z17I and 4Z17H
Joker 4X17MG and 4Z17MG
A special Award will be available for stations having at least 6 valid QSOs with the participating special event stations. The operation is valid for all radio amateurs and SWLs around the world. More details are available via the following Web pages:
http://www.iarc.org/4z4tl/Maccabiah17-main.htm
http://www.iarc.org

9M8, EAST MALAYSIA (Mountain DXpedition Postponed)
OPDX has been informed by Alan VK4AAR, that the proposed June expedition to a Dayak village in the mountains near Kuching City has been postponed til Aug 31. (See OPDX.709 for details) Nothing else has been changed. Operators are still being sought to join them and any one interested should contact 9M8SC at chansc44 at yahoo.com Alan VK4AAR wants it understood that he is NOT the organizer of this venture. Mr. S C Chan 9M8SC is in the driving seat and all Emails should be directed to him. However Alan is their QSL Manager by appointment. The callsign will be announced later.

A3, TONGA
YL operators Elizabeth/VE7YL and Gwen/VK3DYL are now active as A35YL from Nuku'alofa (OC-049). Look for them to be active from Vava'u (OC-064) before they leave on Jun 8. Their expected activity will be on 40-10M CW/ SSB. They were spotted this past week on 20M CW/SSB and on 40/17M CW. QSL via VK3DYL by the bureau or direct with 2 USDs or 1 new IRC.

A3, TONGA
Rick AI5P is expected to be in Tonga from May 28 til Jun 7 and be active as A35PX. Activity will be mostly on CW on 40-10M. As this was being typed no QSNs were reported. QSL via AI5P.

C6, BAHAMAS
Pete/W2GJ and Steve/AA4V are currently planning two trips to Crooked Island (NA-113). They are expected to be active in the IOTA Contest in Jul and the CQ WW SSB Contest in late Oct. Both contests will be a Multi-Single entries. Their callsigns will be C6ARV (AA4V) and C6APR (W2GJ). Both operators will be active on the WARC bands before and after the contests. QSL via their home callsigns (QRZ.com).

C6, BAHAMAS
Eric K9GY will be active as C6AYM from Dec 23 to Jan 1. He will be on the Islands of Nassau and Paradise. Activity will be mainly QRP CW on 40-10M and also 6 and 2 meters. QSL via K9GY.

CS9, MADEIRA ISLAND (Special Event)
During the month of Jul look for special event station CS9SRA to be active commemorating the 50th anniversary of the Cattle Exhibition in Porto Moniz Madeira Island (CT3). Details are available (in Spanish) on the

following Web pages http://www.arrm.pt.vu
http://members.netmadeira.com/arrm/noticias.htm

CU4, AZORES (Contest/IOTA/Lighthouse Activity)
A group of 12 European operators will activate Graciosa Island (EU-175) between Jul 23/Aug 4. Hermann HB9CRV will kick it off as CU4/CT3FN on 6M including a beacon on 50.112MHz. The entire group will begin operations as CU4T from Light -house do Carapacho (LH-113) on Jul 27. The operators mentioned are CT1AGF CT1EPV CT1EGW CT1GFK CT1GPQ DJ2VO DF6QV G3KHZ HB9CNU HB9CQL HB9CRV/CT3FN and HB9EBV. For the IOTA Contest Jul 30-31 look for the group to be a Multi/Single entry, and the callsign will be changed to CU4M then revert to CU4T after the contest. Outside of the contest, operations will include RTTY/PSK. QSL CU4M and CU4T to CT1GFK direct or by the bureau. QSL CU4/CT3FN via HB9CRV direct or by the bureau.

DXCC NEWS
Bill Moore NC1L ARRL DXCC Manager, reports that the following operation is approved for DXCC credit: T68G Afghanistan. Current operation effective Apr 05.

IOTA NEWS
EU-056. Ric DL2VFR will be active as LA/homecall from Otroy Island between Jun 4-11. Activity will be mainly CW. QSL via his home callsign (by the Bureau is OK).

EU-064. Members of the Provins ARC will be active using a special callsign (TM0K) on the Ile de Noirmoutier (DIFM AT-020) during the RSGB IOTA Contest (Jul 30-31). The group will be active from Bernards F9IE QTH. Team members mentioned are Franck/ F4AJQ Bernard/F9IE John/F5VHQ and Pascal/F5JSD. QSL via F4AJQ direct or by the bureau.

EU-065. Look for a multi-national team from France Scotland and Belgium to be active as TM4Z from Ouessant Island (DIFM AT-001) in the IOTA Contest (Jul 30-31). QSL via F4DXW direct or by the bureau.

J6, ST. LUCIA
Operators Scott/N9AG (J68AS) Kirk/W8QID (J68ID) and Mark/WB9CIF (J6/WB9CIF) will be here from Jun 21 to Jul 5. Their activity will be mostly 6M RTTY and 160M (for the VKs) but all bands are available. QSL to their home callsigns.

SPECIAL EVENT
To celebrate the 73rd annual 24 Heures du Mans being held Jun 18-19 in Le Mans France the radio amateurs of Sarthe will activate TM6ACO between Jun 5-19, which includes the 24 hour race. Activity will be on all bands CW and SSB. A special QSL card will be issued. QSL via F6KFI. The radio amateurs of Sarthe have been airing a special callsign for 54 years since 1952. These callsigns have been used in the past F3YE F3XC F8GE F6KFI TV6ACO and TM6ACO. A special 24 Heures du Mans Award is available for anyone who has contacted three of the special callsigns (GCR +- 10 Euros) by sending to F6KFI BP22088 F-72002 LE MANS CEDEX 1

(FRANCE). More information is available at:
http://asso.proxiland.fr/aras72/

SPECIAL EVENT (Lewis and Clark Bicentennial Commemoration)
Members of the Great Falls Area Amateur Radio Club in
Great Falls Montana will activate the special event
callsign W7M from 0000z Jun 13 thru 2359z Jun 26th.
Suggested frequencies are
SSB 3855 7250 14250 21350 28350kHz
CW 35 kHz up from band edge
QSL with SASE/IRC to W7ECA PO BOX 1763 Great Falls
MT. 59403-1763

T88, PALAU
Yasu/JA6BJV and Toshio/JA3IFT will be going here for
their vacation between Jun 3-6. Yasu will operate CW
as T88AG and Toshio will operate SSB as T88AH. They
will be on all bands but mainly on 40M and above. QSL
via the bureau, to their home callsigns or direct to
their address below.
JA6BJV Noriyasu Noguchi, 3-7-4 Midorigaoka, Arao,
Kumamoto, 864-0033 JAPAN
JA3IFT: Toshio Nishina, 224-1, Jyuri, Ritto, Shiga
520-3039 JAPAN
The T88AG log is expected to be uploaded to the LoTW.

The Society can be contacted in the following ways
To Pat VK2JPA via vk2jpa at wia.org.au or
Col VK2CTD via ctdavies at bigpond.net.au or
you can drop a line to P.O. Box 93 Toongabbie, NSW 2146.
73's for this week from Pat VK2JPA Broadcast Officer
NNNN